

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P395861

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3975.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

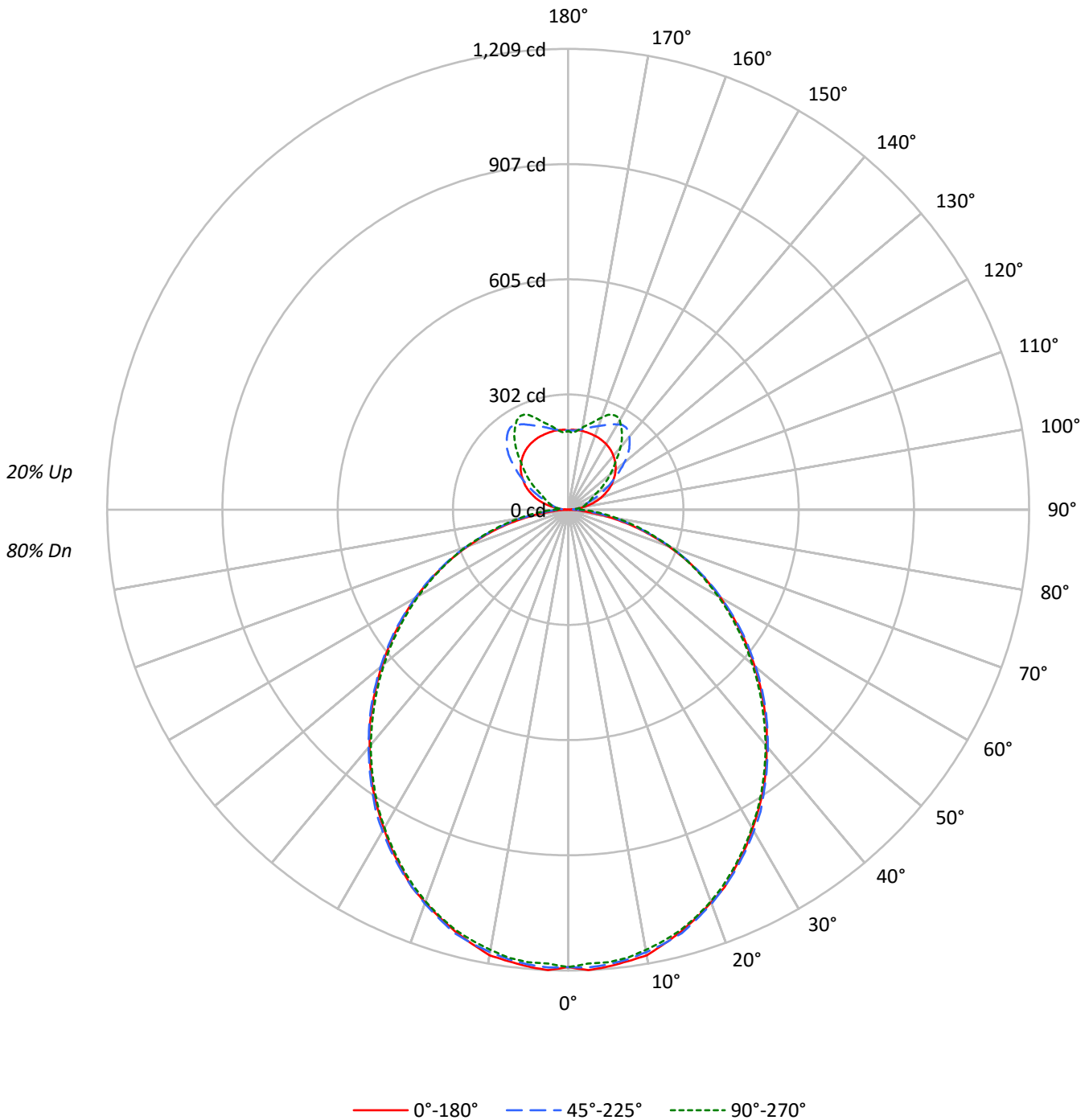
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395861

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6596	6596	6596
5°	6613	6460	6390
10°	6575	6284	6181
15°	6443	6110	5961
20°	6316	5864	5704
25°	6164	5616	5419
30°	5987	5357	5128
35°	5821	5072	4827
40°	5613	4777	4514
45°	5412	4489	4185
50°	5197	4174	3852
55°	4971	3850	3513
60°	4719	3493	3163
65°	4429	3103	2787
70°	4017	2650	2393
75°	3460	2100	1922
80°	2642	1512	1435
85°	1379	904	972



TEST NUMBER: P395861

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	2.9
10°-20°	321.6	8.1
20°-30°	476.2	12.0
30°-40°	556.5	14.0
40°-50°	559.0	14.1
50°-60°	491.3	12.4
60°-70°	368.1	9.3
70°-80°	209.4	5.3
80°-90°	66.1	1.7
90°-100°	23.8	0.6
100°-110°	58.1	1.5
110°-120°	96.5	2.4
120°-130°	135.3	3.4
130°-140°	156.0	3.9
140°-150°	148.9	3.7
150°-160°	112.0	2.8
160°-170°	63.4	1.6
170°-180°	20.1	0.5
0°-30°	911.2	22.9
0°-40°	1467.7	36.9
0°-60°	2518.0	63.3
0°-90°	3161.6	79.5
90°-120°	178.4	4.5
90°-150°	618.6	15.6
90°-180°	814.0	20.5
0°-180°	3975.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1203	1191	1198	1194	1192	114
15°	1145	1135	1150	1142	1141	323
25°	1037	1034	1041	1037	1032	478
35°	893	886	896	889	887	558
45°	726	725	731	723	718	560
55°	550	552	554	547	541	492
65°	372	373	375	372	368	367
75°	189	192	197	203	203	200
85°	32	43	58	71	74	42
90°	1	6	18	27	32	3
95°	17	17	17	19	20	19
105°	68	58	44	46	47	71
115°	112	139	85	69	68	110
125°	147	203	153	123	114	132
135°	175	221	226	188	175	135
145°	193	219	264	253	246	121
155°	203	215	246	271	275	94
165°	208	211	223	232	236	59
175°	210	208	208	208	205	20
180°	207	207	207	207	207	



TEST NUMBER: P395861

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0
2.5°	1209.2	1207.2	1202.1	1197.0	1196.0	1195.0	1195.0	1194.0	1194.0	1196.0	1202.1
5°	1203.1	1202.1	1197.0	1191.9	1190.9	1190.9	1189.9	1189.9	1189.9	1191.9	1198.0
7.5°	1195.0	1192.9	1187.9	1182.8	1181.8	1181.8	1181.8	1180.8	1181.8	1182.8	1189.9
10°	1186.9	1185.8	1180.8	1174.7	1172.6	1172.6	1171.6	1169.6	1169.6	1171.6	1178.7
12.5°	1166.5	1165.5	1160.5	1156.4	1156.4	1157.4	1157.4	1158.4	1158.4	1160.5	1165.5
15°	1145.2	1144.2	1139.1	1135.1	1135.1	1135.1	1134.1	1134.1	1135.1	1141.2	1150.3
17.5°	1121.9	1120.9	1116.8	1112.7	1112.7	1112.7	1111.7	1111.7	1112.7	1115.8	1124.9
20°	1096.5	1095.5	1091.4	1087.4	1087.4	1087.4	1086.3	1087.4	1087.4	1091.4	1099.5
22.5°	1072.1	1070.1	1065.0	1061.0	1058.9	1058.9	1058.9	1057.9	1059.9	1063.0	1071.1
25°	1036.6	1035.6	1033.5	1030.5	1032.5	1033.5	1031.5	1029.5	1029.5	1033.5	1040.7
27.5°	1004.1	1002.1	999.0	996.0	993.9	995.0	996.0	998.0	1001.1	1002.1	1008.2
30°	966.5	965.5	962.5	958.4	959.4	960.4	960.4	960.4	962.5	971.6	973.6
32.5°	930.0	929.0	925.9	921.9	922.9	923.9	922.9	923.9	925.9	930.0	939.1
35°	893.4	891.4	888.4	887.3	886.3	886.3	886.3	887.3	888.4	891.4	896.5
37.5°	851.8	849.8	847.8	844.7	846.7	848.8	849.8	848.8	849.8	853.8	855.9
40°	810.2	809.2	807.1	805.1	806.1	807.1	806.1	809.2	811.2	813.2	814.2
42.5°	770.6	768.6	766.5	765.5	765.5	766.5	766.5	768.6	768.6	773.6	772.6
45°	725.9	724.9	723.9	723.9	724.9	724.9	724.9	725.9	726.9	730.0	731.0
47.5°	682.3	681.2	681.2	681.2	681.2	682.3	683.3	686.3	684.3	685.3	686.3
50°	638.6	637.6	637.6	637.6	639.6	639.6	641.7	642.7	643.7	641.7	642.7
52.5°	593.9	592.9	594.9	594.9	597.0	597.0	600.0	597.0	599.0	598.0	598.0
55°	550.3	549.3	551.3	550.3	552.3	552.3	554.3	555.4	554.3	554.3	554.3
57.5°	505.6	504.6	505.6	506.6	507.6	507.6	510.7	510.7	507.6	509.7	508.7
60°	460.9	459.9	460.9	461.9	463.0	463.0	464.0	461.9	464.0	465.0	464.0
62.5°	416.3	415.2	417.3	416.3	417.3	418.3	418.3	421.3	420.3	420.3	419.3
65°	371.6	370.6	370.6	370.6	371.6	372.6	373.6	374.6	374.6	375.6	374.6
67.5°	325.9	324.9	325.9	324.9	325.9	326.9	328.9	330.0	330.0	331.0	330.0
70°	279.2	280.2	279.2	280.2	281.2	282.2	283.3	285.3	285.3	285.3	285.3
72.5°	233.5	232.5	232.5	231.5	233.5	234.5	235.5	238.6	238.6	239.6	239.6
75°	188.8	186.8	187.8	186.8	190.9	191.9	191.9	194.9	195.9	198.0	197.0
77.5°	145.2	145.2	143.2	146.2	147.2	149.2	151.3	153.3	154.3	157.4	157.4
80°	103.6	103.6	102.5	104.6	108.6	109.6	112.7	113.7	116.8	118.8	119.8
82.5°	66.0	66.0	66.0	69.0	72.1	73.1	76.1	79.2	81.2	84.3	85.3
85°	32.5	34.5	34.5	38.6	40.6	42.6	43.7	47.7	50.8	54.8	57.9
87.5°	10.2	11.2	12.2	14.2	18.3	19.3	21.3	25.4	28.4	32.5	35.5
90°	1.0	1.0	2.0	3.0	5.1	6.1	8.1	10.2	13.2	16.2	18.3
92.5°	7.1	7.1	8.1	8.1	8.1	8.1	8.1	9.1	10.2	12.2	13.2
95°	17.3	27.4	16.2	15.2	17.3	17.3	18.3	17.3	17.3	17.3	17.3
97.5°	28.4	50.8	33.5	23.4	22.3	23.4	23.4	25.4	26.4	27.4	27.4
100°	41.6	64.0	58.9	38.6	31.5	30.5	30.5	30.5	31.5	32.5	33.5
102.5°	54.8	73.1	84.3	59.9	44.7	40.6	38.6	37.6	36.5	37.6	37.6
105°	68.0	82.2	103.6	81.2	64.0	57.9	51.8	44.7	43.7	43.7	43.7
107.5°	80.2	91.4	117.8	105.6	83.3	77.2	70.1	58.9	51.8	50.8	49.7
110°	91.4	100.5	127.9	125.9	104.6	95.4	89.3	77.2	67.0	59.9	56.9



TEST NUMBER: P395861

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.5	109.6	135.0	143.2	127.9	116.8	107.6	95.4	84.3	75.1	68.0
115°	111.7	118.8	141.1	157.4	148.2	139.1	128.9	113.7	102.5	93.4	85.3
117.5°	121.8	127.9	147.2	167.5	165.5	159.4	151.3	133.0	119.8	110.7	101.5
120°	131.0	137.1	153.3	174.6	180.7	175.6	170.6	154.3	138.1	127.9	119.8
122.5°	139.1	144.2	159.4	180.7	191.9	190.9	185.8	174.6	158.4	146.2	136.0
125°	147.2	152.3	165.5	184.8	200.0	203.1	201.0	191.9	179.7	165.5	153.3
127.5°	155.3	159.4	171.6	188.8	206.1	212.2	213.2	207.1	198.0	185.8	172.6
130°	162.4	166.5	176.7	191.9	210.2	217.3	221.3	220.3	213.2	205.1	191.9
132.5°	168.5	171.6	181.7	194.9	212.2	220.3	226.4	231.5	226.4	220.3	211.2
135°	174.6	177.7	185.8	198.0	213.2	221.3	229.5	237.6	238.6	233.5	226.4
137.5°	179.7	181.7	189.9	200.0	213.2	221.3	229.5	240.6	246.7	244.7	238.6
140°	184.8	186.8	192.9	203.1	214.2	221.3	228.4	241.6	249.8	252.8	249.8
142.5°	188.8	190.9	195.9	205.1	214.2	220.3	227.4	239.6	250.8	256.9	258.9
145°	192.9	193.9	199.0	206.1	214.2	219.3	225.4	237.6	248.7	257.9	264.0
147.5°	195.9	197.0	200.0	207.1	214.2	218.3	223.4	233.5	244.7	254.8	264.0
150°	199.0	199.0	202.0	207.1	214.2	217.3	221.3	230.5	239.6	249.8	257.9
152.5°	201.0	201.0	204.1	208.1	213.2	216.3	220.3	227.4	235.5	244.7	252.8
155°	203.1	203.1	205.1	208.1	213.2	215.2	218.3	224.4	231.5	238.6	245.7
157.5°	205.1	205.1	206.1	209.1	212.2	214.2	217.3	222.3	227.4	233.5	239.6
160°	206.1	206.1	207.1	209.1	211.2	213.2	215.2	219.3	224.4	228.4	233.5
162.5°	207.1	207.1	208.1	209.1	211.2	212.2	213.2	217.3	220.3	224.4	228.4
165°	208.1	208.1	208.1	209.1	210.2	211.2	212.2	214.2	217.3	220.3	223.4
167.5°	209.1	209.1	209.1	209.1	210.2	210.2	211.2	212.2	214.2	216.3	218.3
170°	210.2	209.1	209.1	210.2	209.1	209.1	210.2	211.2	211.2	213.2	214.2
172.5°	210.2	210.2	209.1	209.1	209.1	209.1	209.1	209.1	209.1	210.2	211.2
175°	210.2	210.2	209.1	209.1	209.1	208.1	208.1	208.1	208.1	208.1	208.1
177.5°	210.2	210.2	209.1	209.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1
180°	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1



TEST NUMBER: P395861

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0	1200.0
2.5°	1208.2	1203.1	1201.1	1200.0	1199.0	1198.0	1196.0	1194.0	1191.9	1191.9
5°	1203.1	1198.0	1196.0	1195.0	1194.0	1192.9	1191.9	1191.9	1191.9	1191.9
7.5°	1195.0	1189.9	1187.9	1186.9	1186.9	1185.8	1185.8	1185.8	1184.8	1185.8
10°	1182.8	1177.7	1176.7	1175.7	1174.7	1172.6	1172.6	1172.6	1171.6	1172.6
12.5°	1167.6	1162.5	1161.5	1160.5	1159.4	1158.4	1158.4	1157.4	1157.4	1158.4
15°	1152.3	1145.2	1143.2	1143.2	1142.2	1141.2	1142.2	1141.2	1141.2	1141.2
17.5°	1130.0	1126.9	1123.9	1121.9	1120.9	1119.8	1119.8	1118.8	1118.8	1118.8
20°	1100.6	1100.6	1100.6	1095.5	1094.5	1093.4	1093.4	1093.4	1093.4	1093.4
22.5°	1072.1	1067.0	1071.1	1068.1	1066.0	1064.0	1065.0	1065.0	1065.0	1065.0
25°	1040.7	1036.6	1037.6	1038.6	1036.6	1033.5	1033.5	1033.5	1033.5	1032.5
27.5°	1007.1	1004.1	1003.1	1004.1	1006.1	1004.1	1001.1	998.0	999.0	999.0
30°	970.6	969.6	968.6	966.5	968.6	969.6	964.5	963.5	963.5	963.5
32.5°	934.0	933.0	930.0	928.0	929.0	931.0	929.0	926.9	926.9	926.9
35°	897.5	893.4	890.4	889.4	889.4	891.4	890.4	887.3	887.3	887.3
37.5°	854.9	855.9	850.8	849.8	849.8	849.8	851.8	846.7	847.8	846.7
40°	813.2	814.2	811.2	808.2	809.2	807.1	810.2	805.1	805.1	805.1
42.5°	771.6	769.6	770.6	764.5	765.5	765.5	766.5	763.5	762.5	761.5
45°	729.0	726.9	725.9	722.9	722.9	721.9	721.9	717.8	717.8	717.8
47.5°	684.3	683.3	681.2	679.2	679.2	678.2	676.2	675.2	674.1	674.1
50°	641.7	638.6	635.6	636.6	635.6	634.5	632.5	631.5	630.5	629.5
52.5°	596.0	596.0	591.9	591.9	591.9	590.9	588.9	586.8	586.8	585.8
55°	551.3	550.3	547.2	546.2	547.2	546.2	544.2	542.2	542.2	541.1
57.5°	506.6	504.6	503.6	503.6	502.6	502.6	499.5	497.5	498.5	497.5
60°	460.9	460.9	459.9	458.9	458.9	457.9	454.8	454.8	454.8	453.8
62.5°	417.3	417.3	415.2	414.2	415.2	414.2	413.2	412.2	411.2	410.2
65°	371.6	372.6	370.6	371.6	371.6	369.6	369.6	368.5	368.5	367.5
67.5°	328.9	328.9	327.9	327.9	328.9	327.9	327.9	326.9	326.9	325.9
70°	285.3	287.3	286.3	286.3	286.3	285.3	285.3	285.3	284.3	285.3
72.5°	241.6	241.6	241.6	241.6	241.6	242.6	242.6	242.6	242.6	241.6
75°	201.0	202.0	201.0	202.0	203.1	203.1	203.1	203.1	204.1	203.1
77.5°	161.4	162.4	162.4	164.5	164.5	164.5	165.5	165.5	165.5	165.5
80°	123.9	124.9	125.9	127.9	127.9	130.0	131.0	131.0	131.0	131.0
82.5°	89.3	92.4	93.4	96.5	97.5	97.5	99.5	100.5	100.5	100.5
85°	61.9	65.0	67.0	69.0	71.1	71.1	73.1	73.1	74.1	74.1
87.5°	38.6	41.6	43.7	46.7	47.7	48.7	49.7	50.8	51.8	51.8
90°	21.3	23.4	25.4	27.4	27.4	28.4	29.4	30.5	31.5	31.5
92.5°	15.2	16.2	18.3	19.3	19.3	20.3	21.3	21.3	22.3	22.3
95°	17.3	18.3	18.3	19.3	19.3	19.3	20.3	20.3	20.3	20.3
97.5°	26.4	26.4	26.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
100°	34.5	35.5	35.5	35.5	36.5	36.5	36.5	36.5	35.5	35.5
102.5°	38.6	39.6	40.6	41.6	41.6	41.6	42.6	42.6	42.6	42.6
105°	43.7	43.7	44.7	45.7	45.7	45.7	46.7	46.7	46.7	46.7
107.5°	49.7	49.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
110°	56.9	56.9	56.9	55.8	56.9	55.8	55.8	55.8	55.8	55.8



TEST NUMBER: P395861

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	65.0	64.0	64.0	62.9	62.9	62.9	61.9	61.9	61.9	61.9
115°	78.2	73.1	71.1	69.0	69.0	69.0	68.0	68.0	68.0	68.0
117.5°	94.4	87.3	83.3	79.2	78.2	77.2	75.1	75.1	74.1	74.1
120°	111.7	104.6	98.5	93.4	91.4	90.4	87.3	85.3	83.3	83.3
122.5°	127.9	120.8	114.7	109.6	107.6	105.6	102.5	100.5	98.5	98.5
125°	144.2	137.1	131.0	125.9	122.8	120.8	117.8	115.7	113.7	113.7
127.5°	161.4	152.3	146.2	141.1	138.1	137.1	133.0	131.0	128.9	128.9
130°	180.7	169.6	161.4	155.3	153.3	151.3	148.2	146.2	144.2	144.2
132.5°	200.0	188.8	179.7	171.6	168.5	166.5	162.4	160.4	158.4	158.4
135°	218.3	208.1	199.0	190.9	187.8	184.8	180.7	176.7	174.6	174.6
137.5°	232.5	225.4	217.3	210.2	207.1	204.1	200.0	195.9	192.9	193.9
140°	244.7	238.6	233.5	228.4	225.4	223.4	219.3	216.3	213.2	213.2
142.5°	255.8	250.8	245.7	241.6	240.6	239.6	236.6	233.5	231.5	231.5
145°	266.0	263.0	258.9	253.8	252.8	251.8	248.7	246.7	245.7	245.7
147.5°	269.0	270.1	269.0	266.0	265.0	264.0	261.9	259.9	258.9	258.9
150°	267.0	271.1	273.1	273.1	273.1	273.1	273.1	271.1	270.1	270.1
152.5°	260.9	267.0	271.1	274.1	275.1	276.2	276.2	277.2	276.2	276.2
155°	253.8	259.9	266.0	269.0	271.1	272.1	274.1	275.1	276.2	275.1
157.5°	245.7	250.8	254.8	260.9	263.0	265.0	267.0	269.0	270.1	269.0
160°	238.6	242.6	245.7	249.8	250.8	252.8	254.8	255.8	257.9	256.9
162.5°	231.5	234.5	237.6	239.6	241.6	242.6	244.7	245.7	246.7	245.7
165°	226.4	228.4	229.5	231.5	232.5	233.5	234.5	235.5	235.5	235.5
167.5°	220.3	222.3	223.4	224.4	225.4	226.4	226.4	227.4	227.4	227.4
170°	215.2	216.3	217.3	218.3	218.3	219.3	219.3	219.3	220.3	219.3
172.5°	211.2	211.2	211.2	212.2	212.2	212.2	212.2	212.2	212.2	211.2
175°	209.1	209.1	208.1	208.1	208.1	208.1	208.1	207.1	206.1	205.1
177.5°	208.1	207.1	207.1	206.1	206.1	206.1	205.1	204.1	203.1	202.0
180°	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1	207.1

(END OF REPORT)